

**Dell PowerVault MD3260/MD3260i/MD3660i/MD3660f/
MD3060e Storage Arrays
Information Update**



Notes, Cautions, and Warnings



NOTE: A NOTE indicates important information that helps you make better use of your computer.



CAUTION: A CAUTION indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.



WARNING: A WARNING indicates a potential for property damage, personal injury, or death.

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Information Update

This document describes important product information and restrictions for the Dell PowerVault MD3260/MD3260i/MD3660i/MD3660f/MD3060e Storage Arrays.



NOTE: Henceforth in this document, Dell PowerVault MD3260/MD3260i/MD3660i/MD3660f/MD3060e Storage Arrays is referred to as PowerVault MD Series Dense storage arrays.

PowerVault MD Dense Storage Arrays Software Installation Requirements



NOTE: If you have an earlier version of MD Storage Manager installed on your system, you must uninstall the older version before installing the latest version of the MD Storage Manager available on the Resource Media.

Required Resource Media Version

To use the Dell PowerVault MD3260/MD3260i/MD3660i/MD3660f/MD3060e storage arrays, you must install the MD Storage Manager from the Resource Media for Dell PowerVault MD Series shipped with the system.



CAUTION: Do not install software, utilities, or device drivers from any earlier versions of MD Series Resource Media.

DVD Name	Version
<i>Resource Media for Dell PowerVault MD Series</i>	A00
Systems Supported: MD3060e, MD3260, MD3260i, MD3660i, and MD3660f Storage Arrays	

Required RAID Controller Module Firmware And NVSRAM Versions

All RAID controller modules in your MD Dense storage array must have the following controller firmware and NVSRAM versions installed.

Component	Version
RAID controller firmware	07.84.00.64
NVSRAM	N26X0-784890-904

Always refer to the *Dell PowerVault MD3260, MD3260i, MD3660i, MD3660f, and MD3060e Series Storage Arrays Support Matrix* at support.dell.com/manuals for the latest required software and/or driver levels.

For information on updating your RAID controller firmware or checking your current firmware levels, see the *Dell PowerVault MD3260/3260i/3660i/3660f/3060e Storage Arrays Administrator's Guide* at support.dell.com/manuals.

New Features In This Release

This release supports several new hardware and software features. It also includes a redesigned version of the MD Storage Manager user interface.

Support for Dense Storage Array Enclosure

The MD Series Dense storage array is a five-drawer 4U enclosure managed by dual SAS, iSCSI (1 Gbps or 10 Gbps), or Fibre Channel (8 Gbps) RAID controller modules. The array can be expanded up to 120 physical disks (or 180 with premium feature activation) by attaching up to two MD3060e (SAS based) expansion enclosures.

Support For New Storage Management Features

This release includes support for **Dynamic Disk Pooling** and **Asymmetric Logic Unit Access (ALUA)**.

Redesigned MD Storage Manager Array Management Window

The Array Management Window (AMW) has several new or renamed main menu options.

New Main Menu option	Feature/Function
Storage	Create disk pools, virtual disks, and virtual disk groups.
Host Mappings	Define hosts and create host-to-array mappings.
Hardware	Set RAID controller, drawer, physical disk, and LUN IDs, and blink array components.
Monitor	View system performance parameters, perform troubleshooting operations, and view other support information.
Upgrade	Upgrade and inventory RAID controller or expansion module firmware, NVSRAM, and view other enclosure configuration.

The AMW tabs have changed as follows.

Previous Tab Name	New Tab Name	Feature/Function
Logical	Storage & Copy Services	Create and manage virtual disk copies, snapshots, and remote replication.
Physical	Hardware	Shows storage array physical component in graphical view and supports ability to manage each component on the storage array.
Mappings	Host Mappings	Shows the tree view of defined and undefined storage space, host servers and host port IDs.
Support	Not Available	Deleted from this release.

MD Storage Manager Online Help

In some cases, the MD Storage Manager online help describes storage management features that are not supported in this release. Additionally, some terminology used in the online help may be inconsistent.

References To Features Not Supported In This Release

The following storage management features described in the MD Storage Manager online help are not supported in this release:

- Asynchronous Remote Replication
- Thin Provisioning
- Solid-State Disk (SSD) Caching
- Point-in-Time Virtual Disk Snapshots
- Consistent Grouping of storage management operations

As a result, while these features may be described in the online help, they are disabled (greyed out) in the MD Storage Manager. Any feature that is not disabled in MD Storage Manager is fully supported. For detailed information, see the MD Series Dense storage array online help or the user documentation at support.dell.com/manuals.

Terminology Related To Legacy Features

MD Storage Manager online help contains references to “legacy” versions of **Remote Replication** and **Snapshot Virtual Disks**. In this release, this terminology - for example, **Remote Replication (Legacy)** and **Snapshot (Legacy)** - must be disregarded.

 **NOTE:** In future releases, legacy terminology will be used to differentiate between standard features and advanced features. However, in this release, no advanced features are supported.

Other Information You May Need

 **WARNING:** See the safety and regulatory information that shipped with your system. Warranty information may be included within this document or as a separate document.

- The *Getting Started Guide* provides an overview of setting up your system and technical specifications.
- The *Owner's Manual* provides information about system features and describes how to troubleshoot the system and install or replace system components.
- The *Administrator's Guide* provides an overview of the tasks that must be completed to configure the storage management features.
- The *CLI Guide* provides information about using the command line interface (CLI).
- The Rack Installation instructions provide information on how to rack your system
- The *Setting Up Your Dell PowerVault MD3260/3260i/3660i/3660f Storage Array* instructions provide information on how to set up the hardware and install the software on your storage array.
- The *Deployment Guide* provides information on installing and configuring the software and hardware.
- Any media that ships with your system that provides documentation and tools for configuring and managing your system, including those pertaining to the operating system, system management software, system updates, and system components that you purchased with your system.
- For the full name of an abbreviation or acronym used in this document, see the Glossary at support.dell.com/manuals.

 **NOTE:** Always check for updates on support.dell.com/manuals and read the updates first because they often supersede information in other documents.

 **NOTE:** When upgrading your system, it is recommended that you download and install the latest BIOS, driver, and systems management firmware on your system from support.dell.com.

Resource Media Readme

The **Readme.txt** file in the root directory of the *Resource Media for Dell PowerVault MD Series* for MD3060e, MD3260, MD3260i, MD3660i, and MD3660f Storage Arrays contains important information on a number of critical topics. Always read this document thoroughly before using your MD Series Dense storage array. The following topics are addressed in the **Readme.txt** file:

- Upgrading RAID controller firmware
- Deploying your MD Series Dense storage array on Linux operating systems
- Configuring your MD storage array to use the Microsoft VDS or VSS providers
- Using your MD storage array on VMware ESX/ESXi-based systems
- Any known issues or late program changes

Other Resources

For more information on the MD Series Dense storage arrays, see the following resources:

- User documentation—support.dell.com/manuals
- Video series—del.ly/PowerVaultMD
- Technical whitepapers—dell.com/pvresources